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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,635	10/29/2003	Brian Harold Kelley	030619	7328
23696	7590	07/08/2005	EXAMINER	
Qualcomm Incorporated Patents Department 5775 Morehouse Drive San Diego, CA 92121-1714			NGUYEN, VAN H	
			ART UNIT	PAPER NUMBER
			2194	

DATE MAILED: 07/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/697,635

Applicant(s)

KELLEY ET AL.

Examiner

VAN H. NGUYEN

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 October 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. Claims 1-24 are presented for examination.
2. The cross reference related to the application cited in the specification must be updated (i.e., update the relevant status, with PTO serial numbers or patent numbers where appropriate, on pages 1 and 8). Correction is required.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-24 are rejected under 35 U.S.C. 102(b) as being anticipated by the **Draves et al.** (US 6,349,355 B1).

5. As to claim 1, Draves teaches the invention as claimed including a method for dynamically registering a function in a device that includes at least two operating modes comprising a privileged mode and a non-privileged mode (see the abstract), the method comprising:

identifying an available slot in a data structure that maps identifiers to functions (col.11, lines 40-60);

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storing a pointer associated with the function in the slot (col.8, lines 19-28; col.13, lines 56-62; and col.14, lines 13-16);

retrieving an identifier that is associated with the slot (col.11, lines 16-50 and col.12, lines 3-13); and

making the identifier accessible to non-privileged applications (col.11, lines 40-42 and col.14, lines 29-31).

6. As to claim 2, Draves teaches storing the identifier in memory that is readable by non-privileged applications (col.11, lines 20-21 and 40-42).

7. As to claim 3, Draves teaches a table that maps identifiers to functions (col.7, lines 32-40; col.8, lines 43-49).

8. As to claim 4, Draves teaches the identifier is an index into the table (col.11, lines 17-19).

9. As to claim 5, Draves teaches the device is a wireless device (col.6, lines 1-6).

10. As to claim 6, Draves teaches performing the registration during device initialization (col.13, lines 37-42).

11. As to claims 7-12, note the rejection of claims 1-6 above. Claims 7-12 are the same as claims 1-6, except claims 7-12 are apparatus claims and claims 1-6 are method claims.

12. As to claims 13-18, note the rejection of claims 1-6 above. Claims 13-18 are the same as claims 1-6, except claims 13-18 are apparatus claims and claims 1-6 are method claims.

13. As to claims 19-24, note the rejection of claims 1-6 above. Claims 19-24 are the same as claims 1-6, except claims 19-24 are computer readable media claims and claims 1-6 are method claims.

### *Conclusion*

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Noel et al. (US 6804766) teaches "Method for managing pages of a designated memory object according to selected memory management policies."

Aman et al. (US 6594671) teaches "Separating privileged functions from non-privileged functions in a server instance."

Draves et al. (US 5950221) teaches "Variably-sized kernel memory stacks."

Temple (US 5937199) teaches "User programmable interrupt mask with timeout for enhanced resource locking efficiency."

Plog et al. (US 5920894) teaches "Control circuit for generating control signals for controlling read and write accesses to a memory."

Blandy et al. (US 6247064) teaches "Process using virtual addressing in a non-privileged instruction to control the copying of a page of data in or between multiple media."

Strelloff et al. (US 5109329) teaches "Multiprocessing method and arrangement."

Tone (US 4604688) teaches "Address translation buffer control system."

Maly et al. "A privilege management system for a secure network" 1996 IEEE, pp. 147-154.

Maly et al. "A privilege management and enforcement system for distributed resource sharing" 1996 IEEE, pp. 106-111.

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15. Any inquiry or a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: (571) 272-2100.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN H. NGUYEN whose telephone number is (571) 272-3765. The examiner can normally be reached on Monday-Thursday from 8:30AM - 6:00PM. The examiner can also be reached on alternative Friday.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Meng-Ai An can be reached on (571) 272-3756.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Any response to this action should be mailed to:**  
**Commissioner for patents**  
**P O Box 1450**  
**Alexandria, VA 22313-1450**

vhn

  
**MENG-AL T. AN**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2100**